

Amendments to the Specification:

Please replace the last full paragraph on page 16 which begins on line 22, with the following amended paragraph:

Fig. 24 is a graph showing influences of all input sulfur into the smelting reduction furnace of Embodiment 5, giving to densities and slopping degree of [S] in the molten iron, [C] in the same and (FeO) in slag the relation between the influences of the vertical downward momentum of all charged materials giving rise to the carry-over loss of waste plastic from the smelting reduction furnace of Embodiment 5, and the carry-over loss and the tower speed of the furnace gas;

Please replace the paragraph bridging pages 16 and 17 with the following amended paragraph:

Fig. 25 is a graph showing ~~the relation between influences of vertical momentum of all charged materials giving to carry[-] over loss of waste plastic from the smelting reduction furnace of Embodiment 5, and the carry[-] over loss and tower speed of the furnace gas~~ influences of all the input sulfur into the smelting reduction furnace of Embodiment 5, giving rise to densities and slopping degree of [S] in the molten iron, [C] in the same and (FeO) in slag; and